

AP20Rec'd PCT/PTO 19 JUL 2006

SEQUENCE LISTING

<110> Taramino, Graziana
Sakai, Hajime
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Niu, Xiaomu

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<170> PatentIn version 3.2

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195 200 205

tcc tcg tcg ctc ggg gcg gag gag agc ggg tgg agg tcg tcg tcg ggg 672
Ser Ser Ser Leu Gly Ala Glu Glu Ser Gly Trp Arg Ser Ser Ser Gly
210 215 220

tac caa gac tgc gag gac ctg cag agc gtg gct tac gct tac ctg aac 720
Tyr Gln Asp Cys Glu Asp Leu Gln Ser Val Ala Tyr Ala Tyr Leu Asn
225 230 235 240

cat cgc tcg taa 732
His Arg Ser

<210> 6
<211> 243
<212> PRT
<213> Zea Maize

<400> 6

Met Thr Gly Phe Gly Ser Pro Cys Gly Ala Cys Lys Phe Leu Arg Arg
 1 5 10 15

Lys Cys Val Arg Gly Cys Val Phe Ala Pro Tyr Phe Cys His Glu Gln
 20 25 30

Gly Ala Ala His Phe Ala Ala Ile His Lys Val Phe Gly Ala Ser Asn
 35 40 45

Val Ser Lys Leu Leu Ala His Leu Pro Leu Ala Asp Arg Ala Glu Ala
 50 55 60

Ala Val Thr Ile Ser Tyr Glu Ala Gln Ala Arg Leu Arg Asp Pro Ile
 65 70 75 80

Tyr Gly Cys Val Ala His Ile Phe Ala Leu Gln Gln Gln Val Met Thr
 85 90 95

Leu Gln Ala Gln Leu Ala Ser Leu Lys Ala Gln Ala Ala Gln Gly Gln
 100 105 110

Gln Gly Val His Glu Asp Ala Lys Gly Tyr Val Gly Ser Ala Ala Ala
 115 120 125

Glu Gln Leu Gly Tyr Gly Tyr Pro Trp Cys Ser Gly Asn Gly Gly Ala
 130 135 140

Ala Ala Ala Ala Gly Ala Val Gly Ala Pro Ala Ala Gln Pro Gly Ala
 145 150 155 160

Tyr Gly Asn Gly Ala His Glu Ser Leu Thr Ala Leu Leu Gly Ser Ser
 165 170 175

Asp Tyr Met Gln Gln Ser Leu Tyr His Ala Phe Glu Gln Ala Gly Ala
 180 185 190

Asp Asp Asp Asp Gly Arg Gln Gly Tyr Gly Phe Glu Ala Ala Ala Glu
 195 200 205

Ser Ser Ser Leu Gly Ala Glu Glu Ser Gly Trp Arg Ser Ser Ser Gly
 210 215 220

Tyr Gln Asp Cys Glu Asp Leu Gln Ser Val Ala Tyr Ala Tyr Leu Asn
 225 230 235 240

His Arg Ser

<210> 7
 <211> 780
 <212> DNA
 <213> Oryza sativa

<220>
 <221> CDS
 <222> (1)..(780)

<400> 7
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 Met Thr Gly Phe Gly Ser Pro Cys Gly Ala Cys Lys Phe Leu Arg Arg
 1 5 10 15
 aag tgc gtg cgc ggg tgc gtg ttc gcg cca tac ttc tgc cac gag caa 96
 Lys Cys Val Arg Gly Cys Val Phe Ala Pro Tyr Phe Cys His Glu Gln
 20 25 30
 ggg gcg gcg cac ttc gcc gcc atc cac aag gtg ttc ggc gcc agc aac 144
 Gly Ala Ala His Phe Ala Ala Ile His Lys Val Phe Gly Ala Ser Asn
 35 40 45
 gtg tcc aag ctg ctc gcc cac ctg ccg ctc gcc gac cgc ccc gag gcc 192
 Val Ser Lys Leu Leu Ala His Leu Pro Leu Ala Asp Arg Pro Glu Ala
 50 55 60
 gcc gtc act atc tcc tac gag gcg cag gcc cgc ctc cgc gac ccc atc 240
 Ala Val Thr Ile Ser Tyr Glu Ala Gln Ala Arg Leu Arg Asp Pro Ile
 65 70 75 80
 tat ggc tgc gtc gcc cac atc ttc gcc ctc cag cag cag gtt atg acg 288
 Tyr Gly Cys Val Ala His Ile Phe Ala Leu Gln Gln Gln Val Met Thr
 85 90 95
 ctg cag gcg cag ctg gcg tcg ctc aag gcg gcg gcg gcg caa ggg ata 336
 Leu Gln Ala Gln Leu Ala Ser Leu Lys Ala Ala Ala Ala Gln Gly Ile
 100 105 110
 cac cac cag gac gtc ggc gcc acc acc aag ggc ggc tac atg agc gcc 384
 His His Gln Asp Val Gly Ala Thr Lys Gly Gly Tyr Met Ser Ala
 115 120 125
 gcc gcc acc gcc gcc gac gac caa tta ggg tac ggc ggc tac aac cag 432
 Ala Ala Thr Ala Ala Asp Asp Gln Leu Gly Tyr Gly Gly Tyr Asn Gln
 130 135 140
 tgg tgc ggc agc aat ggg ggc ggc gcg ccg gcg gcg tcg cag ccg ggc 480
 Trp Cys Gly Ser Asn Gly Gly Gly Ala Pro Ala Ala Ser Gln Pro Gly
 145 150 155 160
 gcg tat agc agc aat ggc ggc gcc ggc cac ggc cac gac tcc atc acc 528
 Ala Tyr Ser Ser Asn Gly Gly Ala Gly His Gly His Asp Ser Ile Thr
 165 170 175
 gcg ctg ctg gcg gcc ggg tcg gac tac atg cag cac tcg ctg tac cac 576

Ala Leu Leu Ala Ala Gly Ser Asp Tyr Met Gln His Ser Leu Tyr His
 180 185 190

gcg ttc gag cac tcg gag ggc gcc ggc gcc gtg gac gac ggg cac gcg 624
 Ala Phe Glu His Ser Glu Gly Ala Gly Ala Val Asp Asp Gly His Ala
 195 200 205

gcc gcc gcg gcc ttc gag gcg gcg gcg gag tcg tcg tcg tgc ggc atg 672
 Ala Ala Ala Ala Phe Glu Ala Ala Ala Glu Ser Ser Ser Cys Gly Met
 210 215 220

gcg gcg tcg ttc gcc gcc gac gag agc gtg tgg agg tcg tcg tcg tcg 720
 Ala Ala Ser Phe Ala Ala Asp Glu Ser Val Trp Arg Ser Ser Ser Ser
 225 230 235 240

gga tac caa gat tgc gag gat ctc cag agc gtc gcc tac gct tac ctt 768
 Gly Tyr Gln Asp Cys Glu Asp Leu Gln Ser Val Ala Tyr Ala Tyr Leu
 245 250 255

aac cgc tcg taa 780
 Asn Arg Ser

<210> 8
 <211> 259
 <212> PRT
 <213> Oryza sativa

<400> 8

Met Thr Gly Phe Gly Ser Pro Cys Gly Ala Cys Lys Phe Leu Arg Arg
 1 5 10 15

Lys Cys Val Arg Gly Cys Val Phe Ala Pro Tyr Phe Cys His Glu Gln
 20 25 30

Gly Ala Ala His Phe Ala Ala Ile His Lys Val Phe Gly Ala Ser Asn
 35 40 45

Val Ser Lys Leu Leu Ala His Leu Pro Leu Ala Asp Arg Pro Glu Ala
 50 55 60

Ala Val Thr Ile Ser Tyr Glu Ala Gln Ala Arg Leu Arg Asp Pro Ile
 65 70 75 80

Tyr Gly Cys Val Ala His Ile Phe Ala Leu Gln Gln Gln Val Met Thr
 85 90 95

Leu Gln Ala Gln Leu Ala Ser Leu Lys Ala Ala Ala Ala Gln Gly Ile
 100 105 110

His His Gln Asp Val Gly Ala Thr Thr Lys Gly Gly Tyr Met Ser Ala

115 120 125
 Ala Ala Thr Ala Ala Asp Asp Gln Leu Gly Tyr Gly Gly Tyr Asn Gln
 130 135 140
 Trp Cys Gly Ser Asn Gly Gly Gly Ala Pro Ala Ala Ser Gln Pro Gly
 145 150 155 160
 Ala Tyr Ser Ser Asn Gly Gly Ala Gly His Gly His Asp Ser Ile Thr
 165 170 175
 Ala Leu Leu Ala Ala Gly Ser Asp Tyr Met Gln His Ser Leu Tyr His
 180 185 190
 Ala Phe Glu His Ser Glu Gly Ala Gly Ala Val Asp Asp Gly His Ala
 195 200 205
 Ala Ala Ala Ala Phe Glu Ala Ala Ala Glu Ser Ser Ser Cys Gly Met
 210 215 220
 Ala Ala Ser Phe Ala Ala Asp Glu Ser Val Trp Arg Ser Ser Ser Ser
 225 230 235 240
 Gly Tyr Gln Asp Cys Glu Asp Leu Gln Ser Val Ala Tyr Ala Tyr Leu
 245 250 255

Asn Arg Ser

<210> 9
 <211> 111
 <212> PRT
 <213> Zea Maize

<220>
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 <222> (1)..(111)

<220>
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 <222> (1)..(111)
 <223> Xaa=any amino acid

<220>
 <221> misc_feature
 <222> (62)..(62)
 <223> Xaa can be any naturally occurring amino acid

<220>

<221> misc_feature
 <222> (107)..(107)
 <223> Xaa can be any naturally occurring amino acid

<400> 9

Met Thr Gly Phe Gly Ser Pro Cys Gly Ala Cys Lys Phe Leu Arg Arg
 1 5 10 15

Lys Cys Val Arg Gly Cys Val Phe Ala Pro Tyr Phe Cys His Glu Gln
 20 25 30

Gly Ala Ala His Phe Ala Ala Ile His Lys Val Phe Gly Ala Ser Asn
 35 40 45

Val Ser Lys Leu Leu Ala His Leu Pro Leu Ala Asp Arg Xaa Glu Ala
 50 55 60

Ala Val Thr Ile Ser Tyr Glu Ala Gln Ala Arg Leu Arg Asp Pro Ile
 65 70 75 80

Tyr Gly Cys Val Ala His Ile Phe Ala Leu Gln Gln Gln Val Met Thr
 85 90 95

Leu Gln Ala Gln Leu Ala Ser Leu Lys Ala Xaa Ala Ala Gln Gly
 100 105 110

<210> 10
 <211> 21
 <212> PRT
 <213> Zea Maize

<220>
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 <223> Xaa = any amino acid

<220>
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 <222> (6)..(6)
 <223> Xaa can be any naturally occurring amino acid

<220>
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 <222> (8)..(8)
 <223> Xaa can be any naturally occurring amino acid

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 <222> (12)..(13)
 <223> Xaa can be any naturally occurring amino acid

<220>
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 <222> (17)..(17)
 <223> Xaa can be any naturally occurring amino acid

<220>
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 <223> Xaa can be any naturally occurring amino acid

<400> 10

Gln Leu Gly Tyr Gly Xaa Tyr Xaa Pro Trp Cys Xaa Xaa Asn Gly Gly
 1 5 10 15

Xaa Ala Xaa Ala Ala
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<210> 11
 <211> 13
 <212> PRT
 <213> Zea maize

<220>
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 <223> Xaa=any amino acid

<220>
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 <222> (6)..(6)
 <223> Xaa can be any naturally occurring amino acid

<400> 11

Ser Asp Tyr Met Gln Xaa Ser Leu Tyr His Ala Phe Glu
 1 5 10

<210> 12
 <211> 10
 <212> PRT
 <213> Zea maize

<220>
 <221> DOMAIN
 <222> (1)..(10)
 <223> Xaa=any amino acid

<400> 12

Gly Phe Glu Ala Ala Ala Glu Ser Ser Ser
 1 5 10

<210> 13

<211> 28
 <212> PRT
 <213> Zea maize

<220>
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 <223> Xaa=any amino acid

<220>
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 <222> (2)..(2)
 <223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature
 <222> (5)..(5)
 <223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature
 <222> (11)..(11)
 <223> Xaa can be any naturally occurring amino acid

<400> 13

Ala	Xaa	Glu	Ser	Xaa	Trp	Arg	Ser	Ser	Ser	Xaa	Gly	Tyr	Gln	Asp	Cys
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Glu	Asp	Leu	Gln	Ser	Val	Ala	Tyr	Ala	Tyr	Leu	Asn
		20						25			

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 <211> 20
 <212> DNA
 <213> Zea maize

<220>
 <221> primer_bind
 <222> (1)..(20)

<400> 14
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20

<210> 15
 <211> 20
 <212> DNA
 <213> Zea maize

<220>
 <221> primer_bind
 <222> (1)..(20)

<400> 15

cgccctgtgat tgcactacac

20

<210> 16

<211> 20

<212> DNA

<213> Zea maize

<220>

<221> primer_bind

<222> (1)..(20)

<400> 16

ctcctcgcaa ggatcttcac

20

<210> 17

<211> 20

<212> DNA

<213> Zea maize

<220>

<221> primer_bind

<222> (1)..(20)

<400> 17

agcaccgttt ctcgtagat

20

<210> 18

<211> 24

<212> DNA

<213> Zea maize

<220>

<221> primer_bind

<222> (1)..(24)

<400> 18

tagtttgagg gatcaagaac cacc

24

<210> 19

<211> 24

<212> DNA

<213> Zea maize

<220>

<221> primer_bind

<222> (1)..(24)

<400> 19

gctcaaaggc aaggcagtat tttta

24

<210> 20

<211> 24
<212> DNA
<213> Zea maize

<220>
<221> primer_bind
<222> (1)..(24)

<400> 20
cgtttgatat gatgtggaga ttcg

24

<210> 21
<211> 24
<212> DNA
<213> Zea maize

<220>
<221> primer_bind
<222> (1)..(24)

<400> 21
aagcttgatga atgttctgga tgtc

24

<210> 22
<211> 20
<212> DNA
<213> Zea maize

<220>
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<222> (1)..(20)

<400> 22
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20

<210> 23
<211> 20
<212> DNA
<213> Zea maize

<220>
<221> primer_bind
<222> (1)..(20)

<400> 23
actggaacaa gaacgccatc

20

<210> 24
<211> 23
<212> DNA
<213> Zea maize

<220>

<221> primer_bind

<222> (1)..(23)

<400> 24

aatagcgcaa gctgctgttg tat

23

<210> 25

<211> 23

<212> DNA

<213> Zea maize

<220>

<221> primer_bind

<222> (1)..(23)

<400> 25

cccttgtcac tgtcgaaacc tac

23

<210> 26

<211> 287

<212> PRT

<213> Oryza sativa

<220>

<221> MISC_FEATURE

<222> (1)..(287)

<400> 26

Met	Thr	Gly	Phe	Gly	Ser	Pro	Cys	Gly	Ala	Cys	Lys	Phe	Leu	Arg	Arg
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Lys	Cys	Val	Arg	Gly	Cys	Val	Phe	Ala	Pro	Tyr	Phe	Cys	His	Glu	Gln
			20					25					30		

Gly	Ala	Ala	His	Phe	Ala	Ala	Ile	His	Lys	Val	Phe	Gly	Ala	Ser	Asn
		35					40					45			

Val	Ser	Lys	Leu	Leu	Ala	His	Leu	Pro	Leu	Ala	Asp	Arg	Pro	Glu	Ala
	50					55					60				

Ala	Val	Thr	Ile	Ser	Tyr	Glu	Ala	Gln	Ala	Arg	Leu	Arg	Asp	Pro	Ile
65					70					75					80

Tyr	Gly	Cys	Val	Ala	His	Ile	Phe	Ala	Leu	Gln	Gln	Gln	Val	Arg	Ile
				85					90					95	

Val	His	Ser	Ile	Asp	Val	Ser	Leu	Val	Gly	Val	Ala	Gly	Leu	Leu	Ile
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

100 105 110
 Leu Val Ser Arg Arg Val Phe Glu Gln Val Met Thr Leu Gln Ala Gln
 115 120 125
 Leu Ala Ser Leu Lys Ala Ala Ala Ala Gln Gly Ile His His Gln Asp
 130 135 140
 Val Gly Ala Thr Thr Lys Gly Gly Tyr Met Ser Ala Ala Ala Thr Ala
 145 150 155 160
 Ala Asp Asp Gln Leu Gly Tyr Gly Gly Tyr Asn Gln Trp Cys Gly Ser
 165 170 175
 Asn Gly Gly Gly Ala Pro Ala Ala Ser Gln Pro Gly Ala Tyr Ser Ser
 180 185 190
 Asn Gly Gly Ala Gly His Gly His Asp Ser Ile Thr Ala Leu Leu Ala
 195 200 205
 Ala Gly Ser Asp Tyr Met Gln His Ser Leu Tyr His Ala Phe Glu His
 210 215 220
 Ser Glu Gly Ala Gly Ala Val Asp Asp Gly His Ala Ala Ala Ala Ala
 225 230 235 240
 Phe Glu Ala Ala Ala Glu Ser Ser Ser Cys Gly Met Ala Ala Ser Phe
 245 250 255
 Ala Ala Asp Glu Ser Val Trp Arg Ser Ser Ser Ser Gly Tyr Gln Asp
 260 265 270
 Cys Glu Asp Leu Gln Ser Val Ala Tyr Ala Tyr Leu Asn Arg Ser
 275 280 285

<210> 27
 <211> 218
 <212> PRT
 <213> Arabidopsis thaliana

<220>
 <221> MISC_FEATURE
 <222> (1)..(218)

<400> 27

Met Thr Ser Ser Ser Ser Ser Ser Gly Ser Pro Cys Gly Ala Cys Lys

1 5 10 15
 Phe Leu Arg Arg Lys Cys Ala Lys Gly Cys Val Phe Ala Pro Tyr Phe
 20 25 30
 Cys His Glu Gln Gly Ala Ser His Phe Ala Ala Ile His Lys Val Phe
 35 40 45
 Gly Ala Ser Asn Ala Ser Lys Leu Leu Ser His Leu Pro Ile Ser Asp
 50 55 60
 Arg Cys Glu Ala Ala Ile Thr Ile Ser Tyr Glu Ala Gln Ala Arg Leu
 65 70 75 80
 Gln Asp Pro Ile Tyr Gly Cys Val Ser His Ile Phe Ala Leu Gln Gln
 85 90 95
 Gln Val Val Asn Leu Gln Ala Glu Leu Glu Ile Leu Lys Gln Gln Ala
 100 105 110
 Ala Gln Ser Met Ile Phe Ala Asp Ser Pro Thr Ser Glu Asn Pro Asn
 115 120 125
 Ser Tyr Tyr Gly Asp Thr Thr Lys Ala Pro Tyr His His Asp His Gln
 130 135 140
 Asn Ile Tyr His His His Asp Gln Thr His Leu Val Tyr Gln Thr Gly
 145 150 155 160
 Ser Ser Gly Thr Val Gln His Gly Asp Ala Thr Glu Ser Ser Tyr His
 165 170 175
 Asn Glu Thr Ser Ser Gly Met Gly Glu Phe Ser Ile Tyr Ser Asp Leu
 180 185 190
 Glu Gln His Leu Asn Thr Phe Asn Gln Asp His Leu Lys Glu Leu Gln
 195 200 205
 Ser Ala Asn Phe Gly Tyr Ile Ser Phe Ser
 210 215

<210> 28
 <211> 3286
 <212> DNA
 <213> Zea maize

<220>

<221> gene

<222> (1)..(3286)

<400> 28

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attctgtgaa gcagaacaga ggcggcagag tttcagaagt tctgctgccc tgttccagtc	180
cttcataagg gcaaccgtgc aactgctata ctacacgtag gaacagtaca tcttcagcta	240
tactaaattc agtttttttct tcttcttaca aacgcatatt ttaagctaca gcattggcag	300
gccattgctc gatttggtttt tttctcgggtg gttggactta catgcctaca ggaaaactaa	360
aacaatacgt atatgtggtt ttctgataat caaatcaaag ggggaggggg gatgtgacac	420
cagaactagt tctttcccat caccattat tgtttgcttt tgcccagtct cgcgaagaaa	480
aaaaaatgaa atcaaaaagaa aatatcaaag cgacgagcag cgacaactcc acgtctggag	540
ccaggtgatg tatgagtgca ggtactacac ggtacataga ttttattttt ttaaaaaaaaa	600
atcataagca tttattttat ttatcccaa attatgaact ggactttgct cgctggtctc	660
gcagcagccg agcccaactg cacacaaaag aaatgggcgc atgagcaggc acagaaaaac	720
taaacagaga aagcatgcat taattagacc aaacccaaaa cccctaagca aaagattagc	780
aatgattggc gtctccattg tgcacttgca caggtagtag tactcctgct aggcttggtg	840
ttgtaggggt cctgccccat gcagtgcaag gagggagggg tgtgtcacca taaaaattta	900
gcggcaaggg cgagggcgat tggaagctca aaataatgag ctggttgccc accggggaga	960
cacgccggat ttgtttaatc ccctggcctt aatccccag ccctgccgtc tctccttat	1020
aagcaatggc ggaggggtct tgctcttgca ttgcacctcc ggccaccgcg ccatagcccc	1080
cagtaattaa gcaggcgaga acgacgaaga ggcggtcacg caccacaccg atcaatccag	1140
ctcgagcgac cgatcacacg tgcagcacag cacagcacag cggtgctcgg cgaagagaga	1200
tgacgggggt cgggtcaccg tgcggggcgt gcaagttcct gcgccgcaag tgcgtgcgcg	1260
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acaagggtgt cggcgccagc aacgtgtcca agctgctcgc gcacctgccg ctgcgccgacc	1380
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atggctgcgt cgcccacatc ttgcgctac agcagcaggt gtgcatgcgc gactgccccg	1500
ccgcgccgtc tctgggcttg tctcttaatt gtgatagggt ttaattgctg accggccccg	1560
gccaatcgat ccaggttatg accctgcagg cgcagctggc gtcgctcaag gcgcaggcgg	1620

cgcaggggca gcagggcggtg cacgaagacg ccaagggcta cgtgggcagc gccgcccgcgg 1680
 agcagctagg gtacggctac ccctgggtgca gcggcaatgg aggcgccgca gcagcagcag 1740
 caggcgccgt gggcgcgccc gccgcgagc cgggcgcgta cggcaatggc gcgcacgagt 1800
 ccctgaccgc gctgctgggg tcgtcggact acatgcagca gtcgctgtac cacgcgttcg 1860
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 gcgaggacct gcagagcgtg gcttacgctt acctgaacca tcgctcgtaa gaactgagaa 2040
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 atagtgatta ataactctcc tatactctga ttattaccct atagctactt gattaccaca 2700
 catgtagata ttctaagtca tgaccattac atccttaaaa aaggataatt atggtgactc 2760
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 aaaccttttt tctgaagttt tgtttatttg tacacaaatt ttgggttagat gtttccattg 2880
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 tactggaact ctttctgatg ggacatgcac acatcttcag catatatgta gctactagta 3000
 gatgatatga tagagccttt tgtcttgtgt agacaatcct accatagtga ttaataactc 3060
 tcctatatct ggattattat tgccctatag ctacttgatt aacacacatg tagatattct 3120
 aatcatgac cattacatac ttaaaaaggg ataattatgg cgactcatca taattagtgt 3180
 ggtgtctaata aattataggt gtacatttg gccgggtgtg atgggccggc ccgaagcacg 3240
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<210> 29
 <211> 735
 <212> DNA

<213> Zea Maize

<220>

<221> CDS

<222> (1)..(735)

<400> 29

atg acg ggg ttc ggg tca ccg tgc ggg gcg tgc aag ttc ctg cgc cgc	48
Met Thr Gly Phe Gly Ser Pro Cys Gly Ala Cys Lys Phe Leu Arg Arg	
1 5 10 15	
aag tgc gtg cgc ggc tgc gtc ttc gcg ccc tac ttc tgc cac gag cag	96
Lys Cys Val Arg Gly Cys Val Phe Ala Pro Tyr Phe Cys His Glu Gln	
20 25 30	
ggc gcg gcg cac ttc gcc gcc atc cac aag gtg ttc ggc gcc agc aac	144
Gly Ala Ala His Phe Ala Ala Ile His Lys Val Phe Gly Ala Ser Asn	
35 40 45	
gtg tcc aag ctg ctc gcg cac ctg ccg ctc gcc gac cgc gcc gag gcc	192
Val Ser Lys Leu Leu Ala His Leu Pro Leu Ala Asp Arg Ala Glu Ala	
50 55 60	
gcc gtc acc atc tcc tac gag gcg cag gcg agg ctg cgg gac ccc atc	240
Ala Val Thr Ile Ser Tyr Glu Ala Gln Ala Arg Leu Arg Asp Pro Ile	
65 70 75 80	
tat ggc tgc gtc gcc cac atc ttc gcg cta cag cag cag gtg atg acc	288
Tyr Gly Cys Val Ala His Ile Phe Ala Leu Gln Gln Gln Val Met Thr	
85 90 95	
ctg cag gcg cag ctg gcg tcg ctc aag gcg cag gcg gcg cag ggg cag	336
Leu Gln Ala Gln Leu Ala Ser Leu Lys Ala Gln Ala Ala Gln Gly Gln	
100 105 110	
cag ggc gtg cac gaa gac gcc aag ggc tac gtg ggc agc gcc gcc gcg	384
Gln Gly Val His Glu Asp Ala Lys Gly Tyr Val Gly Ser Ala Ala Ala	
115 120 125	
gag cag cta ggg tac ggc tac ccc tgg tgc agc ggc aat gga ggc gcc	432
Glu Gln Leu Gly Tyr Gly Tyr Pro Trp Cys Ser Gly Asn Gly Gly Ala	
130 135 140	
gca gca gca gca gca ggc gcc gtg ggc gcg ccc gcc gcg cag ccg ggc	480
Ala Ala Ala Ala Ala Gly Ala Val Gly Ala Pro Ala Ala Gln Pro Gly	
145 150 155 160	
gcg tac ggc aat ggc gcg cac gag tcc ctg acc gcg ctg ctg ggg tcg	528
Ala Tyr Gly Asn Gly Ala His Glu Ser Leu Thr Ala Leu Leu Gly Ser	
165 170 175	
tcg gac tac atg cag cag tcg ctg tac cac gcg ttc gag cag gcc ggc	576
Ser Asp Tyr Met Gln Gln Ser Leu Tyr His Ala Phe Glu Gln Ala Gly	
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gcg gac gac gac gac ggc cgg cag ggg tac gcc ttc gag gca gcg gcg	624
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